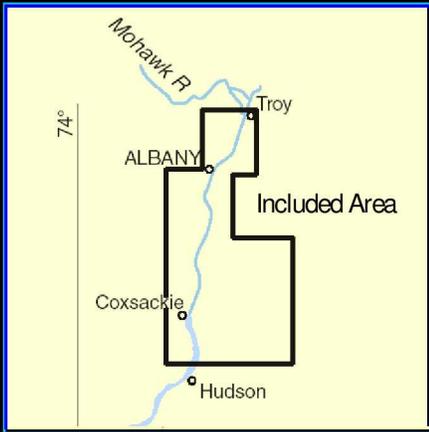


BookletChart™

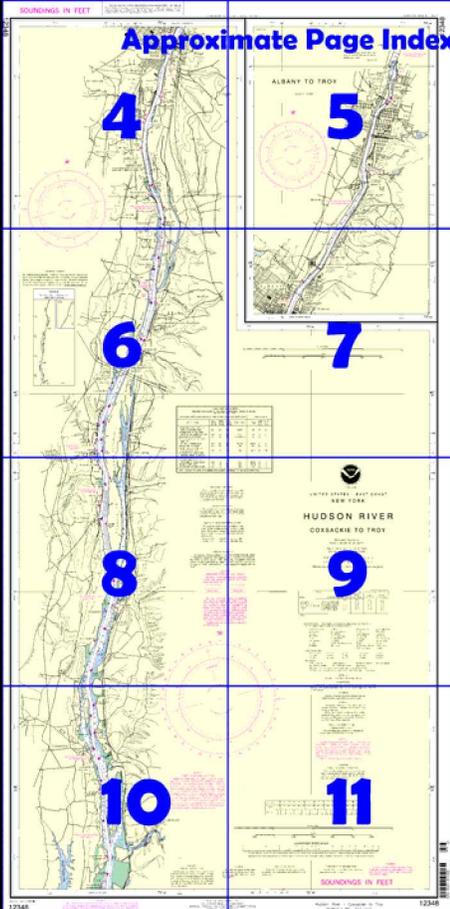
Hudson River - Cossackie to Troy

(NOAA Chart 12348)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- Complete, reduced scale nautical chart
- Print at home for free
- Convenient size
- Up to date with all Notices to Mariners
- United States Coast Pilot excerpts
- Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America’s commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

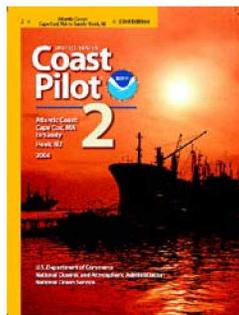
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 2, Chapter 12 excerpts]

(137) In the Hudson River above Kingston many shoals with depths less than 3 feet are in midriver or extend from the shore on either side. The bottom is rocky at many of the bar crossings. Most of the channels through the critical areas are marked with lights and buoys, but strangers in all except small boats are advised to take a pilot. Pilots are engaged at New York.

(149) **Coxsackie** is at Mile 108W. Berths, gasoline, electricity, water, and ice are

available at a yacht club at the north end of town. A State-owned 20-foot concrete launching ramp is also available at Coxsackie.

(151) A 32-foot buoyed **anchorage** basin is on the east bank of the river north of **Stuyvesant** about 3.1 miles above Coxsackie.

(152) A boatyard at **New Baltimore**, Mile 113.5W, can provide berths, electricity, gasoline, diesel fuel, water, storage, and marine supplies. A

launching ramp and a 20-ton mobile hoist are available; hull and engine repairs can be made. In June 1981, a reported depth of 20 feet was available at the fuel dock with 6 feet at the berths.

(153) **Coeymans**, Mile 115W, has a boatyard that can provide berths, electricity, gasoline, diesel fuel, water, ice, and a 12-ton lift; hull and engine repairs can be made.

(154) A submerged jetty, marked by daybeacons, is just E of Coeymans.

(157) **Castleton-on-Hudson**, Mile 119E, has a boat club that can provide berths, electricity, gasoline, diesel fuel, water, ice, and a launching ramp. Gin poles are available at the boat club for stepping masts. In June 1982, depths of 9 feet were reported alongside the docks.

(158) The Castleton Fire Department maintains a rescue vessel at the boat club for emergency medical assistance, firefighting, lifesaving, and damage control. The rescue vessel can be contacted through the Coast Guard on VHF-FM channel 16, or by telephone (518-272-5501).

(164) The Federal project depth is 32 feet from New York Harbor to Albany. Above the Port of Albany, the project depth is 14 feet to the Troy Lock and Dam.

(165) The restricted width of the river at Albany is not sufficient to permit vessels to swing at anchor without interfering with passing craft. However, in an emergency, vessels sometimes anchor in midstream to wait for berthing space.

(208) A yacht club is on the east side of the Hudson River at **Rensselaer** at Mile 126.4, about 0.2 mile south of the fixed highway bridge; berths, electricity, gasoline, diesel fuel, and water are available. In June 1981, reported depths of 15 feet were available on the west side of the yacht club dock with 8 feet on the east side. A municipal launching ramp is at Mile 127.2W.

(215) The **Troy Lock and Dam** is about 8 miles above Albany. The lock dimensions are: length 492.5 feet; width 44.4 feet; depth over upper miter sill 16.3 feet at normal pool level; and depth over lower miter sill 13 feet at lowest low water. The lift at the lowest stages is 17.3 feet. The mean range of **tide** is about 4.7 feet below the lock. (See **207.50 and 207.60**, chapter 2, for navigation regulations for the lock and operating regulations for the dam.) **Caution**

(216) The area within about 500 feet below the Troy Dam is extremely dangerous because of the turbulence caused by water discharge from the dam. The danger area is marked by buoys.

(217) The Hudson River above the Troy Lock and Dam joins with the New York State Canal System to form a connecting waterway westward to Lake Erie and Lake Ontario, and northward to Lake Champlain.

(218) The **New York State Canal System**, comprising Erie Canal, Oswego Canal, Cayuga and Seneca Canal, and Champlain Canal, is under the jurisdiction of the State of New York. Navigation on the State canals is free except for mooring, dockage, wharfage, storage, or use of canal equipment or facilities for which a permit is required. Detailed data regarding movement through the New York State Canal System may be obtained from the New York State Canal Corporation, Office of Canals, 200 Southern Boulevard, P.O. Box 189, Albany, NY 12201-0189; telephone (518-471-5011).

(219) A toll free telephone number (1-800-422-1825) to receive prerecorded messages and for publicizing events and attractions along the canal system is available to mariners within the state of New York.

Table of Selected Chart Notes

NOTE Z

NO-DISCHARGE ZONE, 40 CFR 140

Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/vessel_sewage/vsdndzone.html.

CAUTION

Mariners are warned to stay clear of the protective nripap surrounding navigational light structures shown thus: 

HEIGHTS

Heights in feet above Mean High Water.

NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Kingston, N.Y.	WXL-37	162.475 MHz
Albany, N.Y.	WXL-34	162.550 MHz

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 2 for important supplemental information.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

PLANE COORDINATE GRID

(based on NAD 1927)

New York State Grid, east zone, is indicated by dashed ticks at 10,000 foot intervals.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

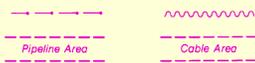
CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:



Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging or trawling.

Covered wells may be marked by lighted or unlighted buoys.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

CAUTION

POTABLE WATER INTAKE

Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Commissioner of Food and Drugs (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) and for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.294" northward and 1.559" eastward to agree with this chart.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Ai alternating	IQ interrupted quick	N nun	Rot rotating
B black	Is isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Bds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

① Wreck, rock, obstruction, or shoal swept clear to the depth indicated.

(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

TIDAL INFORMATION

Place Name	(LAT/LONG)	Height referred to datum of soundings (MLLW)			
		Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Coxsackie	(42°21'N/73°48'W)	----	4.1	0.2	-3.0
New Baltimore	(42°27'N/73°47'W)	----	4.5	0.4	-3.0
Castleton-on-Hudson	(42°32'N/73°46'W)	----	4.4	0.1	-3.0
Albany	(42°39'N/73°45'W)	----	4.6	0.0	-3.0
Troy	(42°44'N/73°42'W)	----	4.7	0.0	-2.5

(11/00)

HUDSON RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2006 AND SURVEYS TO SEP 2006

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS			
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
HUDSON RIVER LIGHT "140" (CHART 12347) TO FOURMILE POINT	28.5	30.7	31.3	7-8-08	400	1.5	32
FOURMILE POINT TO 730 YARDS NORTH OF MILL CREEK LIGHT "MC"	27.8	30.3	25.0	7-08	400	7.0	32
ANCHORAGE AT STUYVESANT 730 YARDS NORTH OF MILL CREEK LIGHT "MC"	31.2	31.5	29.0	11-01-9-04;10-05;7-08	400	0.4	32
TO ALBANY TURNING BASIN	29.2	30.3	28.6	5,6,7-08	400-500	12.1	32
TURNING BASIN AT ALBANY	34.4	28.9	22.9	5-08	600	0.3	32
TURNING BASIN AT ALBANY TO DUNN MEMORIAL BRIDGE (AT LOWEST LOW WATER) DUNN MEMORIAL BRIDGE TO PATROON ISLAND BRIDGE	15.8	15.1	14.1	5,6-08	300-400	0.9	27-32
PATROON ISLAND BRIDGE TO NORTH END OF ADAMS ISLAND	9.1	15.6	13.9	6-08	616-400	1.7	14
THENCE TO TROY LOCK	11.4	13.9	6.5	5,6-08	400-200	5.3	14
CHANNEL EAST OF ADAMS ISLAND	8.4	13.6	9.4	5-08	600-45	0.3	14
	15.7	15.5	13.0	5-08	145	0.4	14

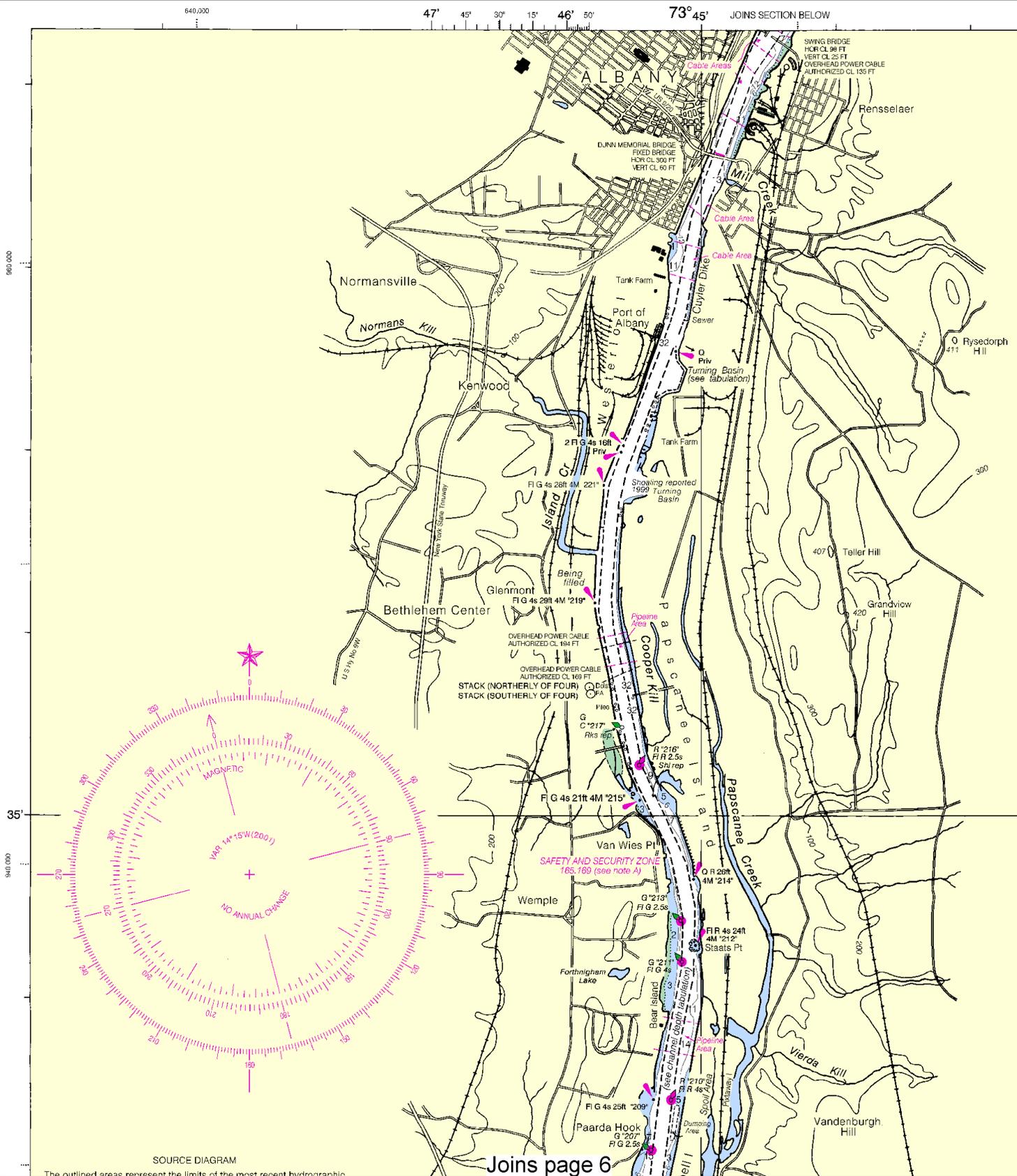
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SOUNDINGS IN FEET

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

Formerly C&GS 284, 1st Ed., Dec. '19

12348



SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic

Joins page 6

4

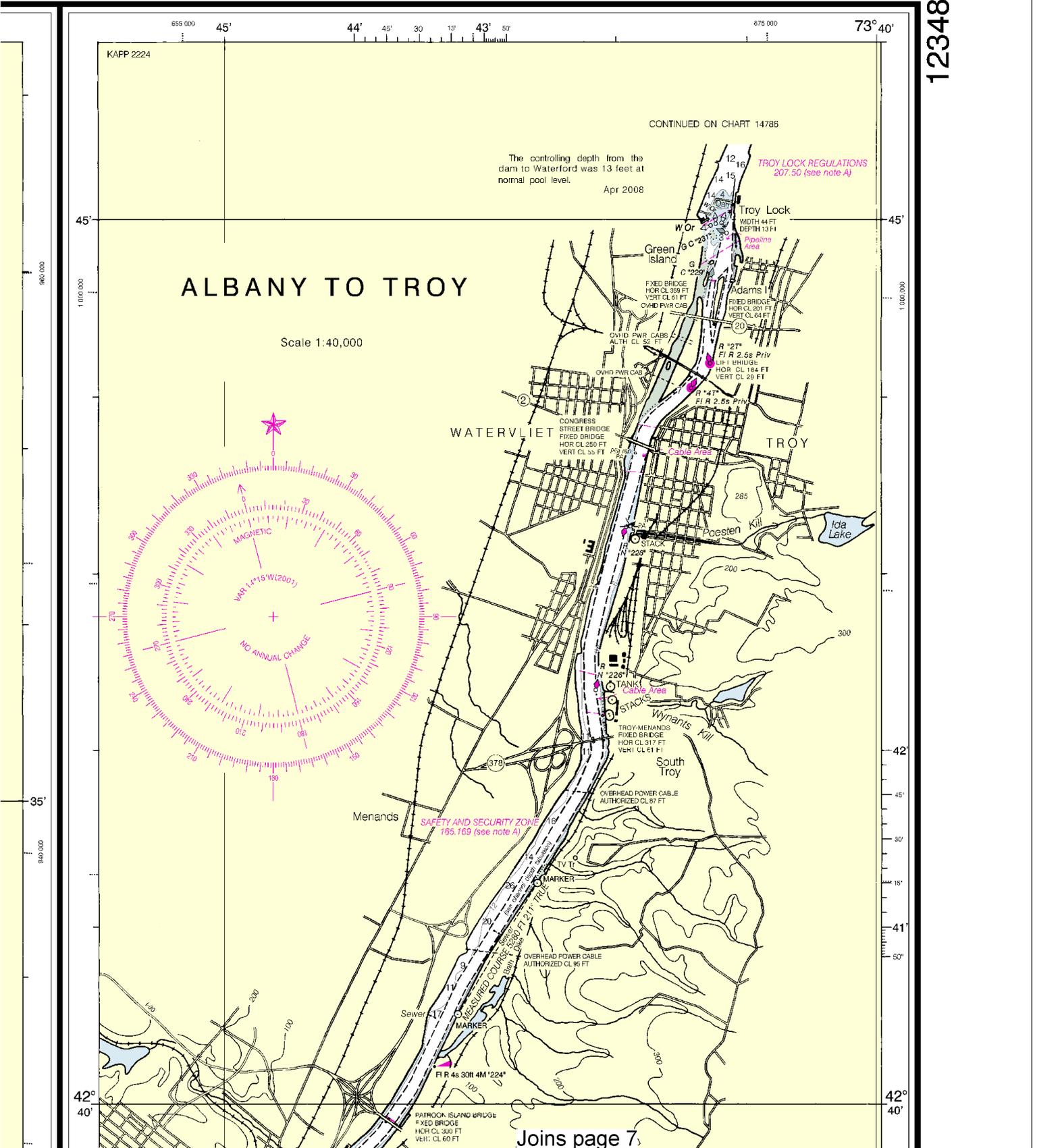


Printed at reduced scale.

SCALE 1:40,000
Nautical Miles

See Note on page 5.

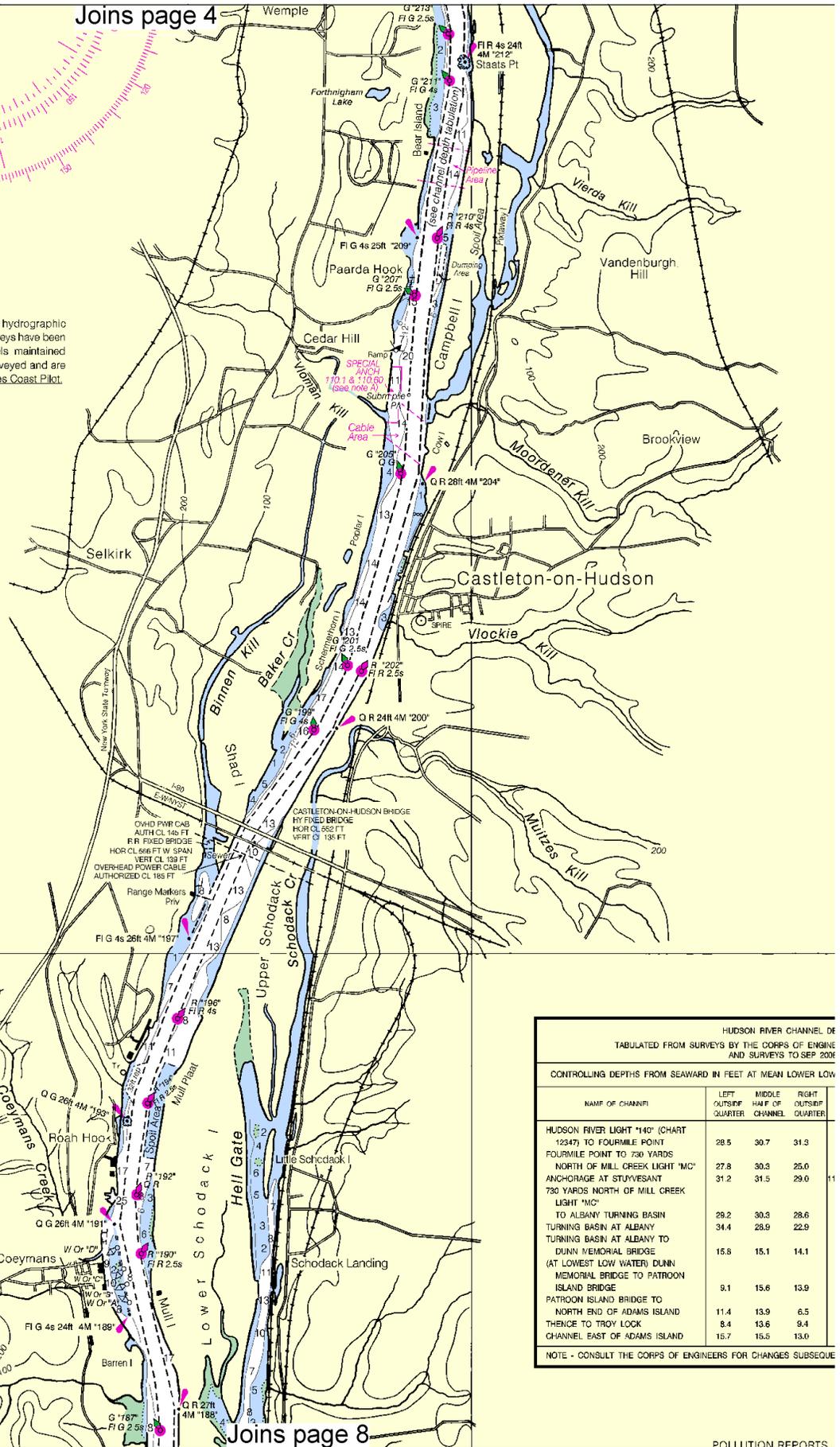
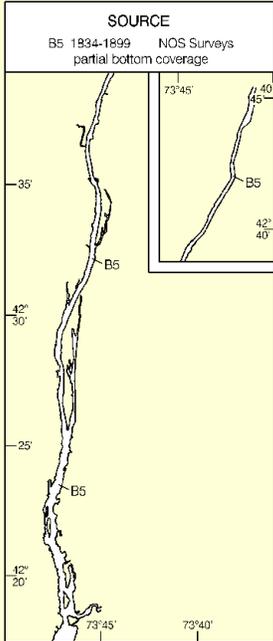




This BookletChart was reduced to 75% of the original chart scale.
 The new scale is 1:53333. Barscales have also been reduced and
 are accurate when used to measure distances in this BookletChart.



SOURCE DIAGRAM
 The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.



HUDSON RIVER CHANNEL DE
 TABULATED FROM SURVEYS BY THE CORPS OF ENGINE
 AND SURVEYS TO SEP 2006

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER
HUDSON RIVER LIGHT '140' (CHART 12347) TO FOURMILE POINT	28.5	30.7	31.3
FOURMILE POINT TO 730 YARDS NORTH OF MILL CREEK LIGHT 'MC'	27.8	30.3	25.0
ANCHORAGE AT STUYVESANT	31.2	31.5	29.0
730 YARDS NORTH OF MILL CREEK LIGHT 'MC' TO ALBANY TURNING BASIN	29.2	30.3	28.6
TURNING BASIN AT ALBANY	34.4	28.9	22.9
TURNING BASIN AT ALBANY TO DUNN MEMORIAL BRIDGE (AT LOWEST LOW WATER) DUNN MEMORIAL BRIDGE TO PATROON ISLAND BRIDGE	15.8	15.1	14.1
PATROON ISLAND BRIDGE TO NORTH END OF ADAMS ISLAND	11.4	13.9	6.5
THENCE TO TROY LOCK	8.4	13.6	8.4
CHANNEL EAST OF ADAMS ISLAND	16.7	15.5	13.0

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT

820 000
 42° 30'
 29° 45'
 30° 15'
 28° 50'

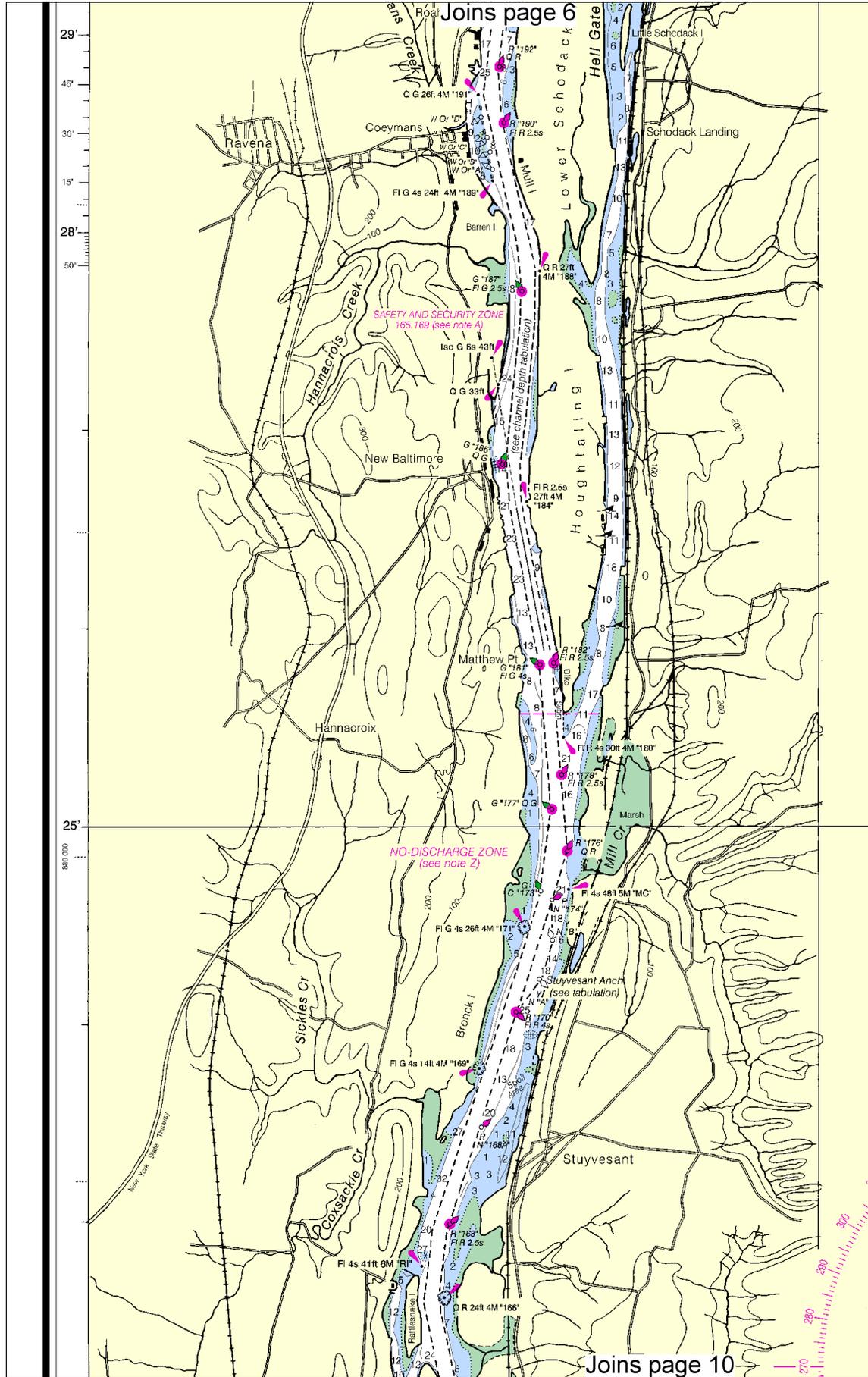


Printed at reduced scale.

SCALE 1:40,000
 Nautical Miles

See Note on page 5.





RODSON RIVER LIGHT "MC" (CHART 12347) TO FOURMILE POINT	28.5	30.7	31.3
FOURMILE POINT TO 730 YARDS NORTH OF MILL CREEK LIGHT "MC"	27.8	30.3	25.0
ANCHORAGE AT STUYVESANT	31.2	31.5	29.0
730 YARDS NORTH OF MILL CREEK LIGHT "MC"			
TO ALBANY TURNING BASIN	29.2	30.3	28.6
TURNING BASIN AT ALBANY TO DUNN MEMORIAL BRIDGE	34.4	28.9	22.9
(AT LOWEST LOW WATER) DUNN MEMORIAL BRIDGE TO PATROON ISLAND BRIDGE	15.8	15.1	14.1
PATROON ISLAND BRIDGE TO NORTH END OF ADAMS ISLAND	9.1	15.6	13.9
THENCE TO TROY LOCK	11.4	13.9	6.5
CHANNEL EAST OF ADAMS ISLAND	8.4	13.6	9.4
	15.7	15.5	13.0

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THIS DATE

POLLUTION REPORTS
 Report all spills of oil and hazardous materials to the National Response Center at 1-800-424-9802 (toll free), or to the Coast Guard facility if telephone communication is impossible (33 CFR 153).

RADAR REFLECTORS
 Radar reflectors have been placed on floating aids to navigation. Individual reflector identification on these aids omitted from this chart.

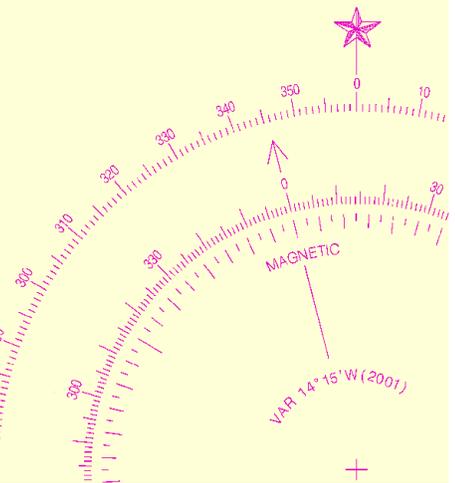
NOAA VHF-FM WEATHER BROADCAST
 The National Weather Service stations below provide continuous marine weather forecasts. The range of reception is variable; most stations is usually 20 to 40 mile antenna site.
 Kingston, N.Y. WXL-37 162
 Albany, N.Y. WXL-34 162

HORIZONTAL DATUM
 The horizontal reference datum of this chart is of 1983 (NAD 83) and for charting purposes is of the World Geodetic System 1984 (WGS 84), referred to the North American Datum of 1927 average of 0.294" northward and 1.559" eastward.

CAUTION
SUBMARINE PIPELINES AND CABLES
 Charted submarine pipelines and submarine pipeline areas are shown as:



Additional uncharted submarine and submarine cables may exist in this area. Not all submarine and submarine cables are buried, and those that were buried may have become exposed. Use extreme caution when operating in areas where pipelines and cables are present. Covered wells may be marked with unlighted buoys.



7,8-08	400	1.5	32
7-08	400	7.0	32
11-01;9-04;10-05;7-08	400	0.4	32
5,6,7-08	400-500	12.1	32
5-08	600	0.3	32
5,6-08	300-400	0.9	27-32
6-08	616-400	1.7	14
5,6-08	400-200	5.3	14
5-08	600-45	0.3	14
5-08	145	0.4	14

ADJUNCT TO THE ABOVE INFORMATION



UNITED STATES - EAST COAST
NEW YORK

HUDSON RIVER
COXSACKIE TO TROY

Mercator Projection
Scale 1:40,000 at Lat. 42°31'

North American Datum of 1983
(Would Geodetic System 1984)

SOUNDINGS IN FEET
AT HUDSON RIVER DATUM

(Mean lower low water during lowest river stages)

3
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nearest U.S.
mmunication

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ADCASTS
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files from the

62.475 MHz
62.550 MHz

4
is North American Datum
; considered equivalent to
4). Geographic positions
27 must be corrected an
stward to agree with this

IND CABLES
; and submarine
line and cable



marine pipelines
exist within the
marine pipelines
required to be
originally buried
Mariners should
rating vessels in
to their draft in
bles may exist,
g or trawling,
ed by lighted or

TIDAL INFORMATION

Name	Place (LAT/LONG)	Height referred to datum of soundings (MLLW)			
		Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Coxsackie	(42°21'N/73°48'W)	feet	feet	feet	feet
New Baltimore	(42°27'N/73°47'W)	----	4.1	0.2	-3.0
Castleton-on-Hudson	(42°32'N/73°46'W)	----	4.5	0.4	-3.0
Albany	(42°39'N/73°45'W)	----	4.4	0.1	-3.0
Troy	(42°44'N/73°42'W)	----	4.6	0.0	-3.0
			4.7	0.0	-2.5

(11/00)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rat rotating
B black	IsO isophase	OBSC obscured	s seconds
Bn beacon	LT HC lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	S; M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	GrS grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstr obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

21. Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.

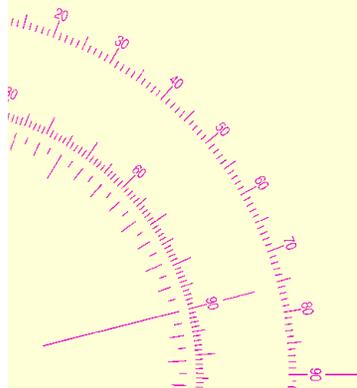
CAUTION

Improved channels shown by broken lines are subject to shoaling, particula

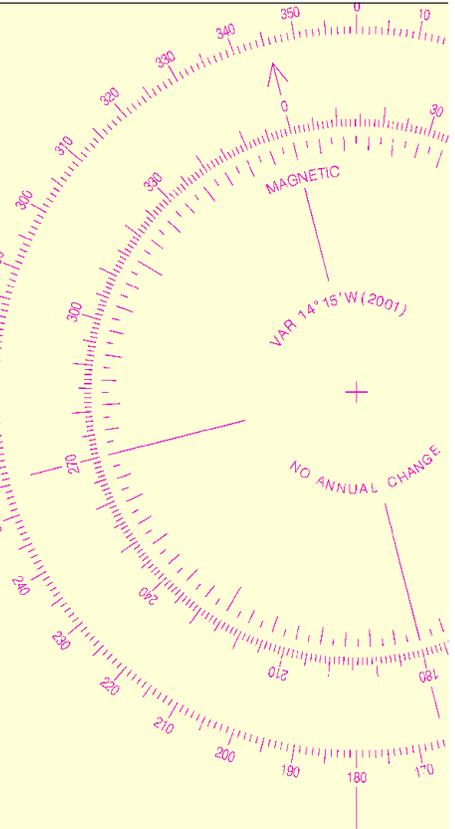
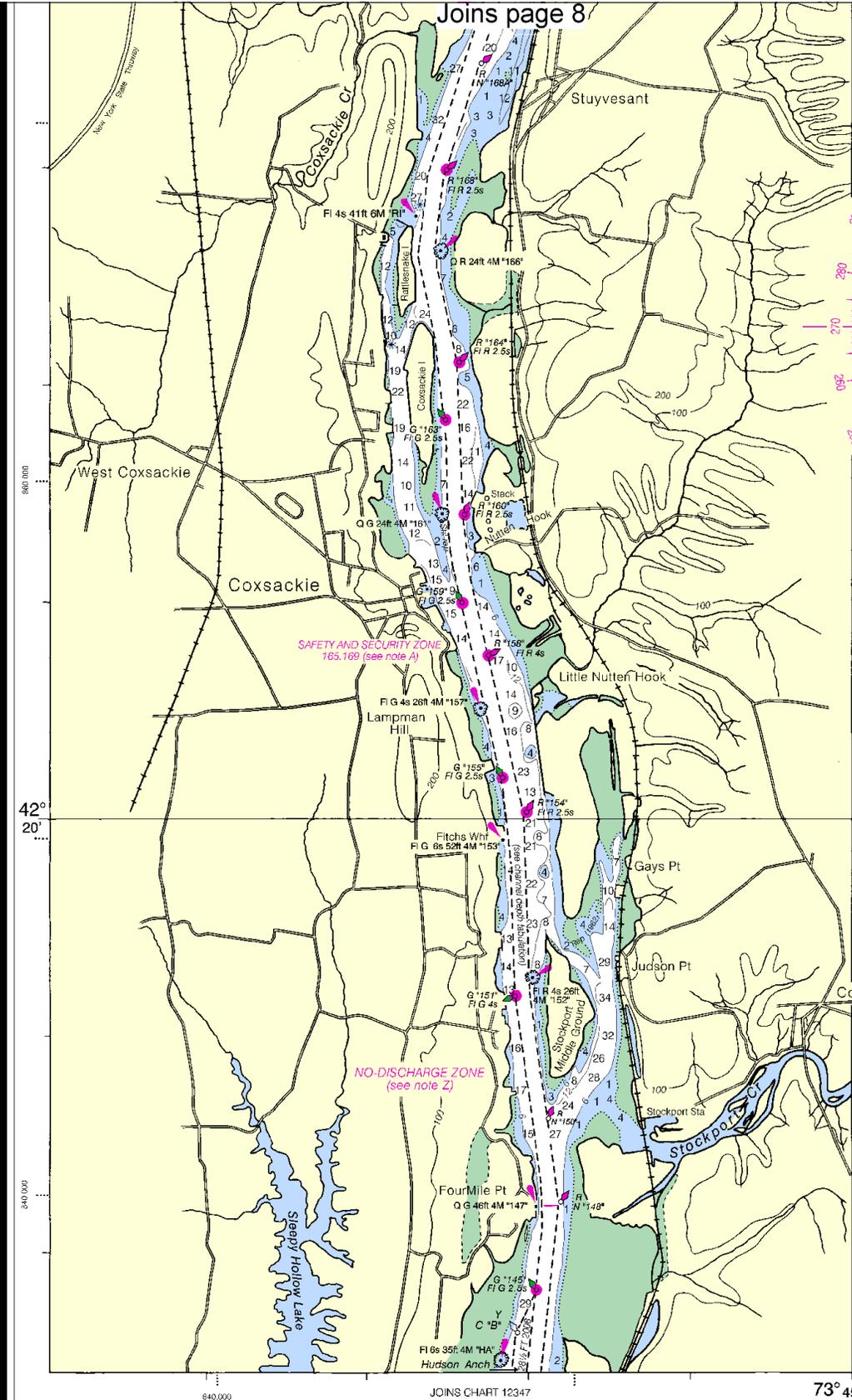
Joins page 11

29'
45'
30'
15'
28'
50'

25'
860,000



Joins page 8



NOTE Z
NO-DISCHARGE ZONE, 40 CFR 140
Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/vessel_sewage/vsdnozone.html.

CAUTION
POTABLE WATER INTAKE
Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Commissioner of Food and Drugs (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.

Mariners of the protected navigational thus.

33rd Ed., Dec.23/00

12348

CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

Published at Washington,
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

10



Printed at reduced scale.

SCALE 1:40,000 Nautical Miles

See Note on page 5.



DIA diaphanous
 F fixed
 FI flashing
 Q quick
 R red
 Ra Ref radar reflector
 R Bn radiobeacon
 VQ very quick
 W white
 WHIS whistle
 Y yellow

Bottom characteristics:

Bks boulders
 bk broken
 Cy clay
 Co coral
 G gravel
 Gs grass
 gy gray
 h hard
 M mud
 Oys oysters
 Rk rock
 S sand
 so soft
 Sh shells
 sy sticky

Miscellaneous:

AUTH authorized
 ED existence doubtful
 (1) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
 (2) Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners. During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

PLANE COORDINATE GRID

(based on NAD 1927)

New York State Grid, east zone, is indicated by dashed ticks at 10,000 foot intervals.

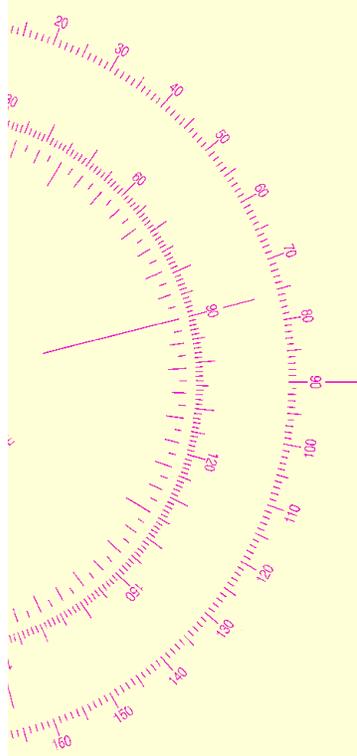
NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 2. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 1st Coast Guard District in Boston, MA or at the Office of the Division Engineer, Corps of Engineers in Waltham, MA. Refer to charted regulation section numbers.

CAUTION

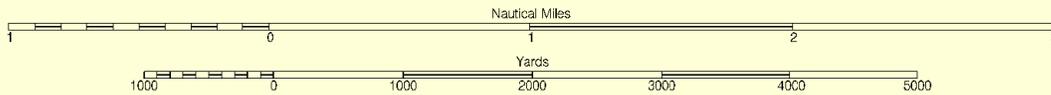
BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

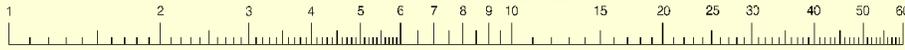


42° 20'

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17



LOGARITHMIC SPEED SCALE



To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the spread is 16.0 knots

CAUTION
Aids are warned to stay clear of active riprap surrounding light structures shown

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 2 for important supplemental information.

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

SOUNDINGS IN FEET

42' 45' 30' 15' 41' 50' 73° 40'



EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.

Coast Guard Group Activities New York – 718-354-4120

Coast Guard New York– 718-354-4101

New York State Police – 877-672-4911

New York City Police – 718-765-4100

Coast Guard Atlantic Area Cmd – 757-398-6390

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENC[®]) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNC[™]) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts[™] – PocketCharts[™] are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot[®] – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.